

Serial No. 10/023,238 Page 2

The listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

 (original) Robot rack loading apparatus for temporary rack storage of panel assemblies, said apparatus comprising:

a rack for storage of multiple assemblies, the rack including side and bottom dunnage including slots for receiving individual assemblies in separate sets of said slots and a sensing hole adjacent one of the slots of each set;

a robot end of arm tool mountable on a robot arm and adapted for sequentially carrying individual assemblies for loading into the rack, said tool including a first sensor for sensing the sensing hole indicating the proper location of the robot arm for loading the component into the associated set of slots; and

a compliant support between the robot arm and the tool and allowing limited compliant positioning of the tool by the component to allow low stress self-adjustment of the component position during loading of the component into the slots of the selected set.

- 2. (original) Apparatus as in claim 1 wherein the compliant support includes a lock for fixing the position of the compliant support for loading pickup and carrying of assemblies by the tool prior to loading of the assemblies into the rack.
- 3. (original) Apparatus as in claim 1 wherein the slots in the side dunnage include lead-in angles around the upper peripheries of the slots to guide the assemblies into their proper positions upon insertion into the slots.
- 4. (original) Apparatus as in claim 1 including a second sensor on said tool for sensing an object limiting forward travel of the tool to indicate a preload position of the tool.
 - 5. cancelled.





Serial No. 10/023,238 Page 3

6. cancelled.

7. cancelled.
8. cancelled.

9, cancelled.